

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent of: Laroia et al.

For: METHODS AND APPARATUS OF
POWER CONTROL IN
WIRELESS COMMUNICATION
SYSTEMS

Patent No. 7,420,939

Issued: September 2nd, 2008

TRANSMITTAL ACCOMPANYING CERTIFICATE OF CORRECTION

Commissioner of Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Dear Sir:

Attached hereto is a Certificate of Correction for the referenced patent number 7,420,939. The applicants are informed and believe that no fees are due because the mistake to be corrected was not caused by applicants.

Applicants further attach a copy of the 11/12/2007 amendments which shows the correct wording of the Claim.

Respectfully submitted,

Dated: 2010-01-06

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 2

PATENT NO. : 7,420,939

APPLICATION NO.: 10/641,308

ISSUE DATE : September 2, 2008

INVENTOR(S) : Rajiv Laroia and Junyi Li and John L. Fan and Sundeep Rangan and Prashanth Hande

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On page 25, column 27, Claim 43, line 21, "information a single", should be --information on a single--

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system including a wireless terminal, the apparatus comprising:

a modulator for modulating first control information on a single tone to generate a first control signal; and

a transmitter coupled to said modulator for transmitting said first control signal using said single tone during a single orthogonal frequency division multiplexed symbol transmission time period;

wherein said first control information is one of transmission power control information, transmission frequency control information, and transmission timing control information corresponding to said wireless terminal;

wherein said first control signal includes an In-phase component and a Quadrature component;

wherein said modulator is an amplitude modulator for amplitude modulating first control information on a first single one of said In-phase and Quadrature components;

wherein said transmitter transmits a plurality of power control signals to said first wireless terminal over a period of time; and includes means for transmitting a periodic device identifier signal on the second single one of the In-phase and Quadrature signal components on less than 50% of the power control signals transmitted to said wireless terminal; and

wherein said single orthogonal frequency division multiplexed symbol transmission time period during which said periodic device identifier is transmitted is a function of a wireless device identifier unique to said wireless terminal.

Claim (43) (currently amended): ~~The communications apparatus of claim 41.~~ A communications apparatus for use in an orthogonal frequency division multiplexed communications

system including a wireless terminal, the apparatus comprising:

a modulator for modulating first control information on a single tone to generate a first control signal; and
a transmitter coupled to said modulator for transmitting said first control signal using said single tone during a single orthogonal frequency division multiplexed symbol transmission time period;

wherein said first control information is one of transmission power control information, transmission frequency control information, and transmission timing control information corresponding to said wireless terminal;

wherein said first control signal includes an In-phase component and a Quadrature component;

wherein said modulator is an amplitude modulator for amplitude modulating first control information on a first single one of said In-phase and Quadrature components;

wherein said transmitter transmits a plurality of power control signals to said first wireless terminal over a period of time; and includes means for transmitting a periodic device identifier signal on the second single one of the In-phase and Quadrature signal components on less than 50% of the power control signals transmitted to said wireless terminal; and

wherein the value of the periodic device identifier at any given time is a function of a wireless device identifier unique to said first wireless terminal.

Claim 44 (original): The communications apparatus of claim 32,

wherein one of the possible modulated signal values corresponds to a control command indicating no change in power; and